

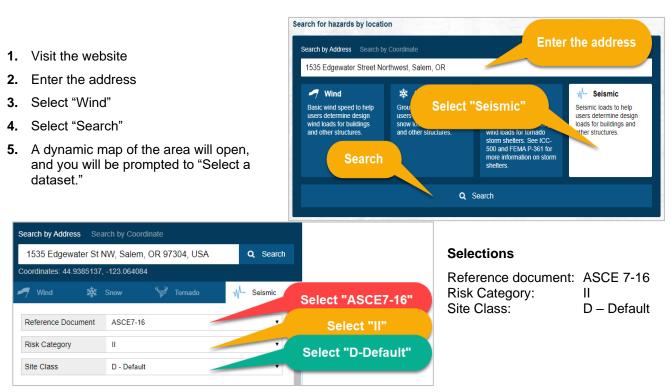
OREGON SEISMIC DESIGN CATEGORIES

Use the ATC hazards by location webtool, provided by the Applied Technology Council (ATC), for sitespecific seismic design category determination or verification. Follow these steps to help you through the process.

Example: Building Codes Division

Address: 1535 Edgewater Street NW, Salem, OR 97304

Hazards.atcouncil.org



6. Use the reported S_{DS} value and Table R301.2.2.1.1, Seismic Design Category Determination, to find the corresponding Seismic Design Category based on the S_{DS} found under Basic Parameters.

Name	Value	Description
SS	0.837	MCE _R ground motion (period=0.2s)
s ₁	0.421	MCE _R ground motion (period=1.0s)
S _{MS}	1.005	Site-modified spectral acceleration value
S _{M1}	* null	Site-modified spectral acceleration value
S _{DS}	0.67	numeric seismic design value at 0.2s SA
S _{D1}	* null	Numeric seismic design value at 1.0s SA

TABLE R301.2.2.1.1 SEISMIC DESIGN CATEGORY DETERMINATION

	SEISMIC DESIGN CATEGORY
$S_{DS} \leq 0.17 \mathrm{g}$	А
$0.17g < S_{DS} \le 0.33g$	В
$0.33 g < S_{DS} \le 0.50 g$	С
• $0.50g < S_{DS} \le 0.67g$	\mathbf{D}_0
$0.50 g < S_{DS} \le 0.83 g$	D1
$0.83g < S_{DS} \le 1.25g$	D2
$1.25 \mathrm{g} < S_{DS}$	Е